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Standard Guide for Performing Evaluations of Underground Storage Tank Systems for Operational Conformance with 40 CFR, Part 280 Regulations[1]

This standard is issued under the fixed designation E 1990; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This guide covers information for evaluating tank systems for operational conformance with the Federal technical standards (including the financial responsibility requirements) for underground storage tanks (USTs) found at 40 Code of Federal Register (CFR) Part 280.

1.2 This guide does not address the corrective action requirements of 40 CFR Part 280.

1.3 To the extent that a tank system is excluded or deferred from the federal regulations under Subpart A of 40 CFR Part 280, it is not covered by this guide.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *Federal Standards:*

Title 40 Code of Federal Regulations (CFR), Environmental Protection Agency, Part 280, Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks (UST)[2]

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *corrosion protection*—to prevent the degradation of a material due to a reaction between the material and its environment.

3.1.2 *implementing agency*—Environmental Protection Agency (EPA), or, in the case of a State with program approval (or pursuant to a memorandum of agreement with EPA), the designated State or Local agency responsible for carrying out the UST program.

3.1.3 *overfill*—exceeding the capacity of the tank.

3.1.4 *overfill protection*—a device used to prevent a tank from being overfilled when product is being added to the tank.

3.1.5 *release detection*—a method to determine whether a release of a regulated substance has occurred from the UST system into the environment or into the interstitial space between the UST system and its secondary barrier or secondary containment around it.

3.1.6 *spill*—to cause or allow product to enter the environment that was intended to be placed in the tank.

3.1.7 *spill prevention*—a device used to prevent or contain a spill associated with removing the fill hose from the tank fill pipe.

3.1.8 *suspected release*—released product discovered at or near the UST site, observed unusual operating conditions, such as apparent loss of product; or results from a release detection method that indicates a release. Suspected release does not include situations where a method or equipment is found to be defective, is immediately corrected, and then indicates no release.

3.1.9 *underground storage tank (UST)*—any one or combination of tanks (including underground pipes connected thereto) that is used to contain an accumulation of regulated substances, and the volume of which (including connected underground piping) is 10 % or more beneath the surface of the ground.

3.1.9.1 *existing tank*—a tank where installation began on or before 12/22/88.

3.1.9.2 *new tank*—a tank where installation started after 12/22/88.

3.1.10 *upgrade*—the addition or retrofit of the UST system or some system components such as release detection, corrosion protection, spill prevention, or overfill protection to improve the ability of an UST system to prevent the release of product and meet the requirements of 40 CFR Part 280.

3.1.11 *UST system*—an underground storage tank, connected underground piping, underground ancillary equipment, and containment system, if any.

[1] This guide is under the jurisdiction of ASTM Committee E50 on Environmental Assessment and is the direct responsibility of Subcommittee E50.05 on Wetland Ecosystems.

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[2] Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

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